15 February 1956

ATTACHMENT WES

An upper level research unit equipped with instrumented aircraft having the capability of achieving an altitude of 55 to 60,000 feet would secure highly valuable information about the fellowing items:

- (1) Turbulence
 - (a) Associated with jet stream
 - (b) Tropopause
 - (c) Lower stratosphere
- (2) Detailed temperature structure
 - (a) Tropopause
 - (b) Lower stratesphere
- (3) Wind structure
- (L) Measurement of ogene concentration at various altitudes
- (5) Diffusion of games in the stratosphere
- (6) Rate and method of interchange of air between the stratesphere and trepesphere
- (7) Water vaper content of the lower stratosphere
- (8) Vertical motion in the upper troposphere and lower stratosphere
- (9) Visibility at tropopause
- (10) Chemical analysis of air samples in layers of restricted visibility at high altitudes
- (11) Air trajectories

The information listed above could be secured at many locations. However, maximum results would be achieved by approximately simultaneous observations made at various areas over the Northern Hamisphere.